

# Appendix B.14

## LTE Band 38



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.96	22.78	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.97	22.79	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.95	22.77	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.96	21.78	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.94	22.76	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.99	22.81	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.02	22.84	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.04	21.86	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.99	22.81	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.99	22.81	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.96	22.78	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.99	21.81	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.03	21.85	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.07	21.89	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.04	21.86	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.96	20.78	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.06	21.88	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.07	21.89	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.10	21.92	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.00	20.82	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.09	21.91	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.07	21.89	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.10	21.92	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.02	20.84	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.99	22.81	33.00	PASS



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Band38	10MHz	QPSK	37800	1RB#24	22.97	22.79	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.95	22.77	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.96	21.78	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.97	22.79	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.98	22.80	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.01	22.83	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.98	21.80	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.03	22.85	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.98	22.80	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.02	22.84	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.00	21.82	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.07	21.89	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.06	21.88	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.04	21.86	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.99	20.81	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.02	21.84	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.06	21.88	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.09	21.91	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.05	20.87	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.15	21.97	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.11	21.93	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.11	21.93	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.04	20.86	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.94	22.76	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.95	22.77	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.88	22.70	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.85	21.67	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.90	22.72	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.97	22.79	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.06	22.88	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.00	21.82	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.15	22.97	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.05	22.87	33.00	PASS



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Band38	15MHz	QPSK	38175	1RB#74	23.05	22.87	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.11	21.93	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.00	21.82	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.00	21.82	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.97	21.79	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.87	20.69	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.00	21.82	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.09	21.91	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.22	22.04	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.03	20.85	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.25	22.07	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.14	21.96	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.18	22.00	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.18	21.00	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.92	22.74	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.91	22.73	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.91	22.73	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.83	21.65	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.86	22.68	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.99	22.81	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.06	22.88	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.01	21.83	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.08	22.90	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.02	22.84	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.02	22.84	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.10	21.92	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.98	21.80	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.99	21.81	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.95	21.77	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.89	20.71	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.00	21.82	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.05	21.87	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.19	22.01	33.00	PASS



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Band38	20MHz	16QAM	38000	100RB#0	21.03	20.85	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.21	22.03	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.13	21.95	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.13	21.95	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.18	21.00	33.00	PASS



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## Field Strength of Spurious Radiation

Test Band = LTE\_38\_20MHz\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2999.5555	25.64	-16.79	29.80	-56.61	-25.00	31.61	254	74	Horizontal
2	5142.0857	65.98	-47.06	33.58	-42.76	-25.00	17.76	226	45	Horizontal
3	7972.3989	49.22	-43.47	37.46	-52.05	-25.00	27.05	226	28	Horizontal
4	11234.7294	48.13	-39.41	39.67	-46.87	-25.00	21.87	325	191	Horizontal
5	13364.2146	46.94	-39.28	40.30	-47.30	-25.00	22.30	221	40	Horizontal
6	17987.3995	49.38	-43.89	42.72	-47.05	-25.00	22.05	179	98	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2995.5551	24.77	-16.80	29.76	-57.53	-25.00	32.53	346	192	Vertical
2	5142.0857	73.40	-47.06	33.58	-35.34	-25.00	10.34	325	198	Vertical
3	7713.1885	54.95	-43.50	36.87	-46.94	-25.00	21.94	289	290	Vertical
4	10284.2914	56.82	-40.82	38.65	-40.61	-25.00	15.61	226	45	Vertical
5	15426.4971	52.81	-39.52	39.03	-42.94	-25.00	17.94	325	198	Vertical
6	17985.5994	49.17	-43.84	42.71	-47.22	-25.00	22.22	188	317	Vertical



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**Test Band = LTE\_38\_20MHz\_TM1**  
**Test Channel = MCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2999.111	25.67	-16.79	29.79	-56.59	-25.00	31.59	266	74	Horizontal
2	4012.2405	52.47	-49.14	31.05	-60.88	-25.00	35.88	247	191	Horizontal
3	5172.0869	66.14	-46.76	33.03	-42.85	-25.00	17.85	332	71	Horizontal
4	7462.3785	50.10	-43.45	36.68	-51.93	-25.00	26.93	180	49	Horizontal
5	10344.2938	50.39	-40.91	38.66	-47.12	-25.00	22.12	254	2	Horizontal
6	17916.5967	49.11	-42.98	42.30	-46.83	-25.00	21.83	144	55	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.1066	25.43	-16.87	29.39	-57.31	-25.00	32.31	263	269	Vertical
2	5172.0869	73.60	-46.76	33.03	-35.39	-25.00	10.39	332	218	Vertical
3	7758.1903	54.12	-43.50	36.85	-47.79	-25.00	22.79	254	294	Vertical
4	10344.2938	55.64	-40.91	38.66	-41.87	-25.00	16.87	144	93	Vertical
5	15516.5007	51.25	-39.64	39.12	-44.53	-25.00	19.53	178	196	Vertical
6	17911.1964	48.85	-42.98	42.27	-47.12	-25.00	22.12	256	327	Vertical



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**Test Band = LTE\_38\_20MHz\_TM1**  
**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.8888	25.57	-16.79	29.79	-56.69	-25.00	31.69	166	85	Horizontal
2	5202.0881	66.15	-46.41	32.35	-43.17	-25.00	18.17	254	72	Horizontal
3	6972.1589	49.65	-44.37	36.44	-53.54	-25.00	28.54	178	251	Horizontal
4	10404.2962	49.09	-40.22	38.63	-47.76	-25.00	22.76	266	2	Horizontal
5	11930.7572	47.98	-38.19	39.47	-46.00	-25.00	21.00	388	327	Horizontal
6	17917.1967	49.06	-42.98	42.30	-46.88	-25.00	21.88	148	116	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.4423	24.94	-16.83	29.60	-57.55	-25.00	32.55	268	65	Vertical
2	4364.4546	52.43	-48.66	31.99	-59.50	-25.00	34.50	254	318	Vertical
3	5202.0881	72.82	-46.41	32.35	-36.50	-25.00	11.50	177	211	Vertical
4	7803.1921	55.03	-43.51	37.10	-46.64	-25.00	21.64	355	290	Vertical
5	10404.2962	58.45	-40.22	38.63	-38.40	-25.00	13.40	256	51	Vertical
6	15606.5043	48.99	-39.67	39.19	-46.75	-25.00	21.75	321	258	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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